

DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES

Office of Structural Materials

Quality Assurance and Source Inspection



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Contract #: 04-0120F4Cty: SF/ALA Rte: 80 PM: 13.2/13.9File #: 69.28**WELDING INSPECTION REPORT****Resident Engineer:**Siegenthaler, Peter**Address:** 333 Burma Road**City:** Oakland, CA 94607**Report No:** WIR-018806**Date Inspected:** 16-Dec-2010**Project Name:** SAS Superstructure**OSM Arrival Time:** 700**Prime Contractor:** American Bridge/Fluor Enterprises, a JV**OSM Departure Time:** 1900**Contractor:** Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China**CWI Name:** Li Yang**CWI Present:** Yes No**Inspected CWI report:** Yes No N/A**Rod Oven in Use:** Yes No N/A**Electrode to specification:** Yes No N/A**Weld Procedures Followed:** Yes No N/A**Qualified Welders:** Yes No N/A**Verified Joint Fit-up:** Yes No N/A**Approved Drawings:** Yes No N/A**Approved WPS:** Yes No N/A**Delayed / Cancelled:** Yes No N/A**Bridge No:** 34-0006**Component:** OBG Segment**Summary of Items Observed:**

On this date Caltrans OSM Quality Assurance (QA) Inspector Mr. M. Manikandan was present during the time noted above for observations relative to the work being performed.

OBG # TRIAL ASSEMBLY YARD (11CE-11DE)

This QA Inspector witnessed the final bolt tension verification on the WT stiffeners of segment 11CE to 11DE. The torque wrench S/N was XO2-666.The QA inspector witnessed 10% of the bolts on a random basis and found the tensioning of the bolts appeared to be in general compliance with the contract specifications. The panel point and bolt size designations were as follows:

PP 103 to PP 104:

M22 X 65 – DHGM 220115– 327 NM

M22 X 70 – DHGM 220041– 460 NM

M22 X 80 – DHGM 220094– 470 NM

OBG # TRIAL ASSEMBLY YARD (11CE-11DE)

This QA Inspector witnessed the final bolt tension verification on the longitudinal diaphragm of segment 11CE to 11DE. The torque wrench S/N was XO2-666.The QA inspector witnessed 10% of the bolts on a random basis and found the tensioning of the bolts appeared to be in general compliance with the contract specifications. The panel point and bolt size designations were as follows:

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PP 103 to PP 104:

M24 X 70 – DHGM 240075– 680 NM

M22 X 95 – DHGM 240021– 540 NM

For additional information please reference the pictures below:

This QA Inspector randomly observed the following work in progress:

OBG # TRIAL ASSEMBLY YARD (12AW-12BW)

The QA Inspector observed the welding operation per the SMAW process on weld joint no. 001 in the (1G) flat position on bottom and side panel piece mark no. SEG3004A. The location was the complete joint penetration groove weld joining side and bottom panel of segment 12AW at work point W3. The welder ID was 040611. The welding variables recorded by QC appeared to comply with the WPS-B-P-2211-B-U2-FCM-1.

The QA Inspector observed the welding operation per the SMAW process on weld joint no. 003 in the (1G) flat position on bottom and side panel piece mark no. SEG3005A. The location was the complete joint penetration groove weld joining side and bottom panel of segment 12BW at work point W3. The welder ID was 040611. The welding variables recorded by QC appeared to comply with the WPS-B-P-2211-B-U2-FCM-1.

OBG # TRIAL ASSEMBLY YARD (12AW-12BW)

The QA Inspector observed the welding operation per the SMAW process on weld joint no. 004 in the (1G) flat position on bottom and side panel piece mark no. SEG3004A. The location was the complete joint penetration groove weld joining side and bottom panel of segment 12AW at work point W4. The welder ID was 046709. The welding variables recorded by QC appeared to comply with the WPS-B-P-2211-B-U2-FCM-1.

The QA Inspector observed the welding operation per the SMAW process on weld joint no. 004 in the (1G) flat position on bottom and side panel piece mark no. SEG3005A. The location was the complete joint penetration groove weld joining side and bottom panel of segment 12BW at work point W4. The welder ID was 046709. The welding variables recorded by QC appeared to comply with the WPS-B-P-2211-B-U2-FCM-1.

OBG # TRIAL ASSEMBLY YARD (12AW-12BW)

The QA Inspector observed the welding operation per the FCAW process on weld joint no. 001 in the (1G) flat position on deck panel piece mark no. OBW12B. The location was the transverse splice weld joining segment 12AW and 12BW at work point W3 to W4. The welder ID was 049220. The ZPMC CWI was identified as Li Yang. The welding variables recorded by QC appeared to comply with the WPS-B-T-2231T-ESAB.

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Summary of Conversations:

No relevant conversations were reported on this date.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Eric Tsang 15000422372, who represents the Office of Structural Materials for your project.

Inspected By:	Manikandan,Murugan	Quality Assurance Inspector
Reviewed By:	Peterson,Art	QA Reviewer
